

1635



1600

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/040,722

DATE: 01/21/2003

TIME: 16:05:24

Input Set : A:\50047.006003.SEQLIST.TXT
 Output Set: N:\CRF4\01212003\J040722.raw

RECEIVED

JAN 24 2003

TECH CENTER 1600/2900

ENTERED

4 <110> APPLICANT: Ruiz-Opazo, Nelson
 6 <170> TITLE OF INVENTION: METHOD OF ASSAYING MODULATORS OF
 7 HYPERTENSION
 8 <130> FILE REFERENCE: 50047/006003
 11 <140> CURRENT APPLICATION NUMBER: US 10/040,722
 12 <141> CURRENT FILING DATE: 2002-01-07
 14 <150> PRIOR APPLICATION NUMBER: US 09/653,030
 15 <151> PRIOR FILING DATE: 2000-09-01
 17 <160> PRIOR APPLICATION NUMBER: US 60/152,011
 18 <161> PRIOR FILING DATE: 1999-09-01
 20 <162> NUMBER OF SEQ ID NOS: 4
 21 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 24 <210> SEQ ID NO: 1
 25 <211> LENGTH: 3636
 26 <212> TYPE: RNA
 27 <213> ORGANISM: Rattus norvegicus
 29 <220> FEATURE:
 30 <221> NAME/KEY: CDS
 31 <222> LOCATION: (1-8)...(3503)
 32 <223> SEQUENCE: 1
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 35 gggagcggg gggagggcgtc gggaggggc ggcggcggc ctcctctctt ctcggggg 120
 36 gggagcgtg gggagggcgtc gggaggggc ggcggcggc ctcctctctt gagctgctct 180
 37 ctcctctctt gggagggcgtc gggaggggc ggcggcggc ctcctctctt atg 240
 38 Met
 39 1
 41 ggg aag ggg gtt ggg cga gac aag tat gag ccc gca gct gta tca gaa 238
 42 Gly Lys Gly Val Gly Arg Asp Lys Tyr Glu Pro Ala Ala Val Ser Glu
 43 5 10 15
 45 cct ggg gac aag aag agc aag aag ggc aag aag gaa agg gac atg gac 336
 46 His Gly Asp Lys Lys Ser Lys Lys Ala Lys Lys Glu Arg Asp Met Asp
 47 20 25 30
 49 ggt ctc aag aag gga ggg gtt atg gac gac cat aaa ctc agc ctg gat 384
 50 Glu Leu Lys Lys Glu Val Ser Met Asp Asp His Lys Leu Ser Leu Asp
 51 35 40 45
 53 gaa ctc cat cgt aaa tac gga aca gat ttg acc cga ggc cta aca ccc 432
 54 Glu Leu His Arg Lys Tyr Gly Thr Asp Leu Ser Arg Gly Leu Thr Pro
 55 50 55 60 65
 57 gca agg gcc gct gag atc ctg gct cgg gat gcc ccc aac gcc ctc acg 480
 58 Ala Arg Ala Ala Glu Ile Leu Ala Arg Asp Gly Pro Asn Ala Leu Thr
 59 70 75 80
 61 cct cct ccc act act ccc gag tgg gtc aaa ttc tgt cgg cag ctg ttc 528
 62 Pro Pro Pro Thr Thr Pro Glu Trp Val Lys Phe Cys Arg Gln Leu Phe

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/040,722

DATE: 01/11/2003

TIME: 16:05:14

Input Set : A:\50047.006003.SEQLIST.TXT

Output Set: N:\CRF4\01212003\J040722.raw

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65 ggt ggc ttc tcc atg tta ctg tgg att gga gcc att ctt tgt ttc ttg 576
66 Gly Gly Phe Ser Met Leu Leu Trp Ile Gly Ala Ile Leu Cys Phe Leu
67      100      105      110
69 gct tat ggc atc cga agt gct acc gaa gag gaa cca cca aat gat gat 624
70 Ala Tyr Gly Ile Arg Ser Ala Thr Glu Glu Glu Pro Pro Asn Asp Asp
71      115      120      125
73 ctg tac ctg ggg gtc gtg ctg tct gct gtc gtc atc ata act ggc tgt 672
74 Leu Tyr Leu Gly Val Val Leu Ser Ala Val Val Ile Ile Thr Gly Cys
75 130      135      140      145
77 ttc tcc tat tat taa gaa gca aaa agc tcc aag atc atg gaa tcc ttc 720
78 Phe Ser Tyr Tyr Gln Glu Ala Lys Ser Ser Lys Ile Met Glu Ser Phe
79      150      155      160
81 aag aac atg gtc cct cag caa gcc ctg gtg att cga aat gga gag aag 768
82 Lys Asn Met Val Pro Gln Gln Ala Leu Val Ile Arg Asn Gly Glu Lys
83      165      170      175
85 atg acc atc aac gca gag gat gtc gtc gtt ggt gat ctg gtg gag gtg 816
86 Met Ser Ile Asn Ala Glu Asp Val Val Val Gly Asp Leu Val Glu Val
87      180      185      190
89 aag gcc gga gac cga atc cct gct gat ctg aga atc ata tct gca aat 864
90 Lys Gly Gly Asp Arg Ile Pro Ala Asp Leu Arg Ile Ile Ser Ala Asn
91      195      200      205
93 gcc tgc aag gtg gat aac tcc tca ctg act ggt gaa tca gaa ccc cag 912
94 Gly Cys Lys Val Asp Asn Ser Ser Leu Thr Gly Glu Ser Glu Pro Gln
95 210      215      220      225
97 act cgg tcc ccg gat ttc aca aac gag aac ccc ttg gag aca agg aac 960
98 Thr Arg Ser Pro Asp Phe Thr Asn Glu Asn Pro Leu Glu Thr Arg Asn
99      230      235      240
101 att gcc ttc ttc tca acc aac tgt gtt gaa gga act aca cgt ggc atc 1008
102 Ile Ala Phe Phe Ser Thr Asn Cys Val Glu Gly Thr Ala Arg Gly Ile
103      245      250      255
105 gtt gtg tac act ggg gat cgc acc gtg atg gcc agg atc gcc acc ctt 1056
106 Val Val Tyr Thr Gly Asp Arg Thr Val Met Gly Arg Ile Ala Thr Leu
107      260      265      270
109 gct tct ggg cag gaa gcc ggc cag acc ccc att gct gaa gaa atc gag 1104
110 Ala Ser Gly Leu Glu Gly Gly Gln Thr Pro Ile Ala Glu Glu Ile Glu
111      275      280      285
113 cac ttc atc cac ctg atc acg ggt gtg gcc gtg ttc ctg ggg gtg tct 1152
114 His Phe Ile His Leu Ile Thr Gly Val Ala Val Phe Leu Gly Val Ser
115 290      295      300      305
117 ttc ttc att ctg tct ctg atc ctt gag tac acc tgg ctg gag gct gtc 1200
118 Phe Phe Ile Leu Ser Leu Ile Leu Glu Tyr Thr Trp Leu Glu Ala Val
119      310      315      320
121 atc ttc ctg att ggt atc atc gta gcc aac gtg cag gaa ggt ttg ctg 1248
122 Tle Phe Leu Ile Gly Ile Ile Val Ala Asn Val Pro Glu Gly Leu Leu
123      325      330      335
125 gcc acc gtc acg gta tgt ctg acg ctg act gcc aag cgc atg gcg agg 1296
126 Ala Thr Val Thr Val Cys Leu Thr Leu Thr Ala Lys Arg Met Ala Arg
127      340      345      350
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/040,722

DATE: 01/21/2003

TIME: 10:08:34

Input Set : A:\50047.006003.SEQLIST.TXT

Output Set: N:\CRF4\01212003\J040722.raw

129	aag aac tgc ctg gtg aag aac ctg gaa gct gtg gag acc ttg ggg tcc	1344
130	Lys Asn Cys Leu Val Lys Asn Leu Glu Ala Val Glu Thr Leu Gly Ser	
131	355 360 365	
133	aca tcc acc atc tgc tcc gac aag act cga act ctg act cag aac cgg	1392
134	Thr Ser Thr Ile Cys Ser Asp Lys Thr Gly Thr Leu Thr Gln Asn Arg	
135	370 375 380 385	
137	atg aca gtg gct cag atg tgg ttt gac aat caa atc cat gaa gct cag	1440
138	Met Thr Val Ala His Met Trp Phe Asp Asn Gln Ile His Glu Ala Asp	
139	390 395 400	
141	acc aca gag aat cag agt ggg gtc tcc ttt gac aag acg tca gcc acc	1488
142	Thr Thr Glu Asn Gln Ser Gly Val Ser Phe Asp Lys Thr Ser Ala Thr	
143	405 410 415	
145	tgg ttc gct ctg tcc aga att gct ggt ctg tgt aac agc gca gtg ttt	1536
146	Trp Phe Ala Leu Ser Arg Ile Ala Gly Leu Cys Asn Arg Ala Val Phe	
147	420 425 430	
149	cag gct aac caa gaa aac ctg cct atc ctt aag cgt gca gta ggc gga	1584
150	Gln Ala Asn Gln Glu Asn Leu Pro Ile Leu Lys Arg Ala Val Ala Gly	
151	435 440 445	
153	gat gct tcc gag tgg ggc ctg tta aag tgc atc gag gtc tgc tgt ggc	1632
154	Asp Ala Ser Glu Ser Arg Leu Leu Lys Cys Ile Glu Val Cys Cys Gly	
155	450 455 460 465	
157	tcc gtg atg gag atg aag gag aag tac acc aag ata gtg gag att cct	1680
158	Ser Val Met Glu Met Arg Glu Lys Tyr Thr Lys Ile Val Glu Ile Pro	
159	470 475 480	
161	ttc aac tcc acc aac aag tac cag ctg tcc att cag aag aac cca aat	1728
162	Phe Asn Ser Thr Asn Lys Tyr Gln Leu Ser Ile His Lys Asn Pro Asn	
163	485 490 495	
165	gaa tgg gag cct aag cag ctg cta gtg atg aag ggc gcc cca gaa aga	1776
166	Ala Ser Glu Pro Lys His Leu Leu Val Met Lys Gly Ala Pro Glu Arg	
167	500 505 510	
169	atc ctg gac cga tgc agt tct atc ctg ctg cag ggc aag gag cag ccc	1824
170	Ile Leu Asp Arg Cys Ser Ser Ile Leu Leu His Gly Lys Glu Gln Pro	
171	515 520 525	
173	cta gac gaa gag ctg aag gac gcc ttt cag aat gcc tac cta gag ctg	1872
174	Leu Asp Glu Glu Leu Lys Asp Ala Phe Gln Asn Ala Tyr Leu Glu Leu	
175	530 535 540 545	
177	ggg ggc ctt gga gag cgt gtg cta ggt ttc tgc cag ctg ctt ctg cct	1920
178	Gly Gly Leu Gly Glu Arg Val Leu Gly Phe Cys His Leu Leu Leu Pro	
179	550 555 560	
181	gaa gaa cag ttt ccc gaa gtc ttc cag ttt gac act gat gaa gtc aat	1968
182	Asp Glu Gln Phe Pro Glu Gly Phe Gln Phe Asp Thr Asp Glu Val Asn	
183	565 570 575	
185	ttc ccc gtg gat aac ctg ttc ttc gag ggt ctt atc tcc atg att gag	2016
186	Phe Pro Val Asp Asn Leu Cys Phe Val Gly Leu Ile Ser Met Ile Asp	
187	580 585 590	
189	cct cct cga gct gct gtc ccc gat ggt gtg ggc aia tgc cgc agc gct	2064
190	Pro Pro Arg Ala Ala Val Pro Asp Ala Val Gly Lys Cys Arg Ser Ala	
191	595 600 605	
193	ggg att aag gtc atc atg gtc aca gga gac cat cca atc aca gcc aaa	2112

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/040,722

DATE: 01/21/2003

TIME: 16:01:26

Input Set : A:\50047.006003.SEQLIST.TXT

Output Set : N:\CRF4\01212003\J040722.raw

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194 Gly Ile Lys Val Ile Met Val Thr Gly Asp His Pro Ile Thr Ala Lys
195 610 615 620 625
197 gcc att gct aag ggg gtg ggc att atc tca gaa ggt aac gag acc gtg 2160
198 Ala Ile Ala Lys Gly Val Gly Ile Ile Ser Glu Gly Asn Glu Thr Val
199 630 635 640
201 gaa gac att gct gcc cgc ctc aac att cca gtg aac cag gtg aac ccc 2208
202 Glu Asp Ile Ala Ala Arg Leu Asn Ile Pro Val Asn Gln Val Asn Pro
203 645 650 655
205 aga gat gcc aag gcc tgt gta gta cat cgc agt gac ttg aag gac atc 2256
206 Arg Asp Ala Lys Ala Cys Val Val His Gly Ser Asp Leu Lys Asp Met
207 660 665 670
209 acc tct gag gag ctg gat gac att ttg cgt tac cac acc gag att gtc 2304
210 Thr Ser Glu Glu Leu Asp Asp Ile Leu Arg Tyr His Thr Glu Ile Val
211 675 680 685
213 ttt gct agg acc tct cct caa cag aag ctg atc att gtg gag ggc tgc 2352
214 Phe Ala Arg Thr Ser Pro Gln Gln Lys Leu Ile Ile Val Glu Gly Cys
215 690 695 700 705
217 caa cgg cag ggt gcc atc gtg gct gtc cca ggg gat ggt gtc aat gac 2400
218 Glu Arg Gln Gly Ala Ile Val Ala Val Thr Gly Asp Gly Val Asn Asp
219 710 715 720
221 tct cca gct ttg aaa aag gca gat att cga gtt gcc atg ggg att gtt 2448
222 Ser Pro Ala Leu Lys Lys Ala Asp Ile Gly Val Ala Met Gly Ile Val
223 725 730 735
225 ggc tgg gat gtg tcc aag caa gct gct gac atg att ctt ctg gat gac 2496
226 Gly Ser Asp Val Ser Lys Gln Ala Ala Asp Met Ile Leu Leu Asp Asp
227 740 745 750
229 aac ttt gcc tcc atc gta act gga gta gaa gaa ggt cgt ctg ata ttt 2544
230 Asn Phe Ala Ser Ile Val Thr Gly Val Glu Glu Gly Arg Leu Ile Phe
231 755 760 765
233 gat aac ttg aag aaa tct att gct tac aca cta aca agt aac att cca 2592
234 Asp Asn Leu Lys Lys Ser Ile Ala Tyr Thr Leu Thr Ser Asn Ile Pro
235 770 775 780 785
237 gaa atc acc ccc ttc ttg ata ttt att att gca aac att cca cta ccc 2640
238 Glu Ile Thr Pro Phe Leu Ile Phe Ile Ile Ala Asn Ile Pro Leu Pro
239 790 795 800
241 ctg ggc acc gtg acc atc ctc tgc att gac ttg ggc act gac atg gtt 2688
242 Leu Gly Thr Val Thr Ile Leu Cys Ile Asp Leu Gly Thr Asp Met Val
243 805 810 815
245 ccc gcc atc tct ctg gcc tat gaa cag gct gaa agt gac atc atg aat 2736
246 Pro Ala Ile Ser Leu Ala Tyr Glu Gln Ala Glu Ser Asp Ile Met Lys
247 820 825 830
249 agg cag ccc aga aat ccc aaa acc gac aac ctt gtg aac gag cgt ctg 2784
250 Arg Gln Pro Arg Asn Pro Lys Thr Asp Lys Leu Val Asn Glu Arg Leu
251 835 840 845
253 atc agc atg gcc tat gga cag atc ggt atg atc cag gcc ctg gga ggt 2832
254 Ile Ser Met Ala Tyr Gly Gln Ile Gly Met Ile Gln Ala Leu Gly Gly
255 850 855 860 865
257 ttc ttc act tat ttt gtg att ctg gct gag aac ggt ttc ctg ccc ttt 2880
258 Phe Phe Thr Tyr Phe Val Ile Leu Ala Glu Asn Gly Phe Leu Pro Phe

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/040,722

DATE: 01/21/2003

TIME: 16:08:14

Input Set : A:\50047.006003.SEQLIST.TXT

Output Set : N:\CRF4\01212003\J040722.raw

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259          870          875          880
261 cac ctg ttc ggc atc cga gag acc tgg gat gac cgc tgg atc aat gat 2928
262 His Leu Leu Gly Ile Arg Glu Thr Trp Asp Asp Arg Trp Ile Asn Asp
263          885          890          895
265 gtc gag gac agc tac ggg cag cag tgg acc tac gag cag agg aag att 2976
266 Val Glu Asp Ser Tyr Gly Gln Gln Trp Thr Tyr Glu Gln Arg Lys Ile
267          900          905          910
269 gtc gag ttc acc tgc cac acg gcc ttc ttt gtc agt atc gtg gta gtg 3024
270 Val Glu Phe Thr Cys His Thr Ala Phe Phe Val Ser Ile Val Val Val
271          915          920          925
272 cag tgc gct gac ttc gtc atc tgc aag acc aga agc aat tct gtc ttc 3072
273 Gln Trp Ala Asp Leu Val Ile Cys Lys Thr Arg Arg Asn Ser Val Phe
274          930          935          940          945
276 cag cag gga atc aag aac aag atc tta ata ttt gtc ctc ttt gaa gag 3120
277 Gln Gln Gly Met Lys Asn Lys Ile Leu Ile Phe Gly Leu Phe Glu Glu
278          950          955          960
281 aca gct att gct gct ttc cta ttc tac tgc cct ggc atg ggt gaa gcc 3168
282 Thr Ala Leu Ala Ala Phe Leu Ser Tyr Cys Pro Gly Met Gly Ala Ala
283          965          970          975
285 att agg atg tat ctc ctc aac ctt act tgg tgg ttc tgt gcc ttc ccc 3216
286 Leu Arg Met Tyr Pro Leu Lys Pro Thr Trp Trp Phe Cys Ala Phe Pro
287          980          985          990
289 tac tcc att ctc atc ttc gtc tat gac gag gtg cgg aag ctc atc atc 3264
290 Tyr Ser Leu Leu Ile Phe Val Tyr Asp Glu Val Arg Lys Leu Ile Ile
291          995          1000          1005
293 agc cga cgc cct cgc ggc tgc gtg gag aag gaa acc tac tac tag 3309
294 Arg Arg Arg Pro Gly Gly Trp Val Glu Lys Glu Thr Tyr Tyr *
295 1010          1015          1020
297 ccaactgcctc tgcacccagt ggaaatttgt gccacacact gccactaccc ctacccccc 3369
298 ttcttgtaact tcaagtcttg gaggctggaa ctctacccct gttaggaaagc accaaagcat 3419
299 gggggggtac agaggtctg gaatgaagca tgtagctgta atggggggcg gggggagggc 3469
300 tggggaaga aacacctgga cgggacgac agcggggaag gtatatatgt gcctttttgt 3519
301 ttctgaaga aaggaaacac tggaaagact gaaagattac gtattatata tggatttita 3569
302 caataaapa tggctattat aacgaaa 3636
303 0010> SEQ ID NO: 1
304 0011> LENGTH: 1020
305 0012> TYPE: PRT
306 0013> ORGANISM: Rattus norvegicus
307 0000> SEQUENCE: 1
310 Met Gly Lys Gly Val Gly Arg Asp Lys Tyr Glu Pro Ala Ala Val Ser
311 1 10 15
312 Glu His Gly Asp Lys Lys Ser Lys Lys Ala Lys Lys Glu Arg Asp Met
313 20 25 30
314 Asp Glu Leu Lys Lys Glu Val Ser Met Asp Asp His Lys Leu Ser Leu
315 35 40 45
316 Asp Glu Leu His Arg Lys Tyr Gly Thr Asp Leu Ser Arg Gly Leu Thr
317 50 55 60
318 Pro Ala Arg Ala Ala Glu Ile Leu Ala Arg Asp Gly Pro Asn Ala Leu
319 65 70 75 80
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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/040,722

DATE: 01/21/2003

TIME: 16:05:15

Input Set : A:\50047.006003.SEQLIST.TXT

Output Set: N:\CRF4\01212003\J040722.raw